

Name Kay

Period

Multiple Choice: READ the question and choose the BEST answer. Write the letter in the space provided and please DO NOT leave questions blank.

ABC 1. Arrange the following layers of the earth in the correct order from the OUTSIDE of the Earth toward the center.

- a. Oceanic and continental crust, lithosphere, mesosphere, asthenosphere, outer and inner core
- b. Oceanic and continental crust, lithosphere, asthenosphere, mesosphere, inner and outer core
- c. Asthenosphere, lithosphere, mesosphere, oceanic and continental crust, inner and outer core
- d. Lithosphere, asthenosphere, mesosphere, inner and outer core

4 2. Hardness is a characteristic of minerals which describes the ...

- a. Resistance of a mineral to scratch
- b. The way in which a mineral breaks
- c. The color of a minerals powder
- d. fracture along clear defined planes

B 3. Rocks are classified as

- a. Sandstone, limestone, granite
- b. Chemical, organic, igneous
- c. sedimentary, metamorphic, clastic
- d. sedimentary, igneous, metamorphic

P 4. What changes are involved when mud from a lake bottom changes to sedimentary rock and then into metamorphic?

- a. Compacting and cementation, and then melting
- b. Melting and then compacting, and cementation
- c. Heat and pressure, and then melting
- d. Compacting and cementation, and then heat and pressure

B 5. The type of rock which is formed when heat and pressure are applied to igneous rock is called...

- a. Sedimentary
- b. Metamorphic
- c. Sediment
- d. Igneous

B 6. The hypothesis that the continents move slowly over the Earth's surface and were once joined as one supercontinent is called...

- a. Pangaea
- b. Continental drift
- c. Sea-floor spreading
- d. Plate tectonics

A 7. Ocean crust is destroyed in

- a. Subduction zones
- b. Mid-ocean ridges
- c. volcanoes
- d. folds

C 8. Intrusive rock occurs when...

- a. Magma bursts out of a volcano and cools quickly on the surface
- b. rock is on the surface outside a volcano
- c. magma slowly cools and moves up to the surface of the Earth
- d. Lava bursts from a volcano and cools slowly on the surface
- e. Lava bursts out of a volcano and quickly cools on the surface of the Earth

B 9. What process changes sediment rock into sedimentary rock?

- a. Cooling
- b. Compacting and cementing
- c. Weathering and erosion
- d. Heat and pressure
- e. (a) and (c)

B 10. A boundary type where plate slide past each other and crust is neither created nor destroyed is called...

- a. Divergent
- b. Transform
- c. Convergent
- d. Mid-ocean ridge

B 11. The boundary type which occurs at the mid-ocean ridge

- a. Transform
- b. Divergent
- c. Mid-ocean ridge
- d. Convergent

B 12. The boundary type which occurs where a trench is found

- a. Divergent
- b. Convergent
- c. Mid-ocean ridge
- d. Transform

C 13. Stress in the Earth's crust is formed by

- a. Volcanoes
- b. Folds
- c. Plate movement
- d. Earthquakes

B 14. What is the name of the point on the surface of the Earth above where an earthquake begins?

- a. Focus
- b. Epicenter
- c. Core
- d. Fold

C 15. New ocean crust forms along

- a. Mountain belts
- b. Subduction zones
- c. Mid-ocean ridges
- d. Trenches

C 16. What is the layer of the Earth which is made of solid metal?

- a. Mantle
- b. Outer core
- c. Inner core
- d. Lithosphere

D 17. Where do mountains form?

- a. Divergent boundaries
- b. Convergent boundaries
- c. Transform Boundaries
- d. At both a and b
- e. All of the above

D 18. A tall, steep sided volcano which is built up from viscous lava is called a ...

- a. Cinder cone
- b. Stratovolcano
- c. Shield volcano
- d. Composite volcano

B 19. Volcanoes which erupt quietly have what type of magma?

- a. High-silica magma
- b. Very hot, low-silica magma
- c. hot, high-silica magma
- d. low temperature magma

C 20. What determines if a volcano erupts explosively or quietly?

- a. The size of the volcano
- b. The age of the volcano
- c. The characteristics of the magma
- d. The magnitude of nearby earthquakes

Fill-in the Blank: choose the word from the parentheses which best completes the sentence

21. Constructive is the force that shapes the earth which builds up the Earth.
(constructive/destructive/construction)
22. Minerals are naturally occurring inorganic solids. (organic/inorganic)
23. Convergent is the boundary type in which 2 plates are colliding into one another.
24. Wegner is the scientist whom hypothesized the theory of continental drift
(James Hutton/Alfred Wegner/Harry Hess)

25. P waves are longitudinal seismic waves which pass through solids and liquids
(P waves/S waves/surface waves)

26. Moment magnitude is the scale used to measure the amount of energy released from an earthquake.
(Modified Mercalli scale/Richter Scale/Moment Magnitude Scale)

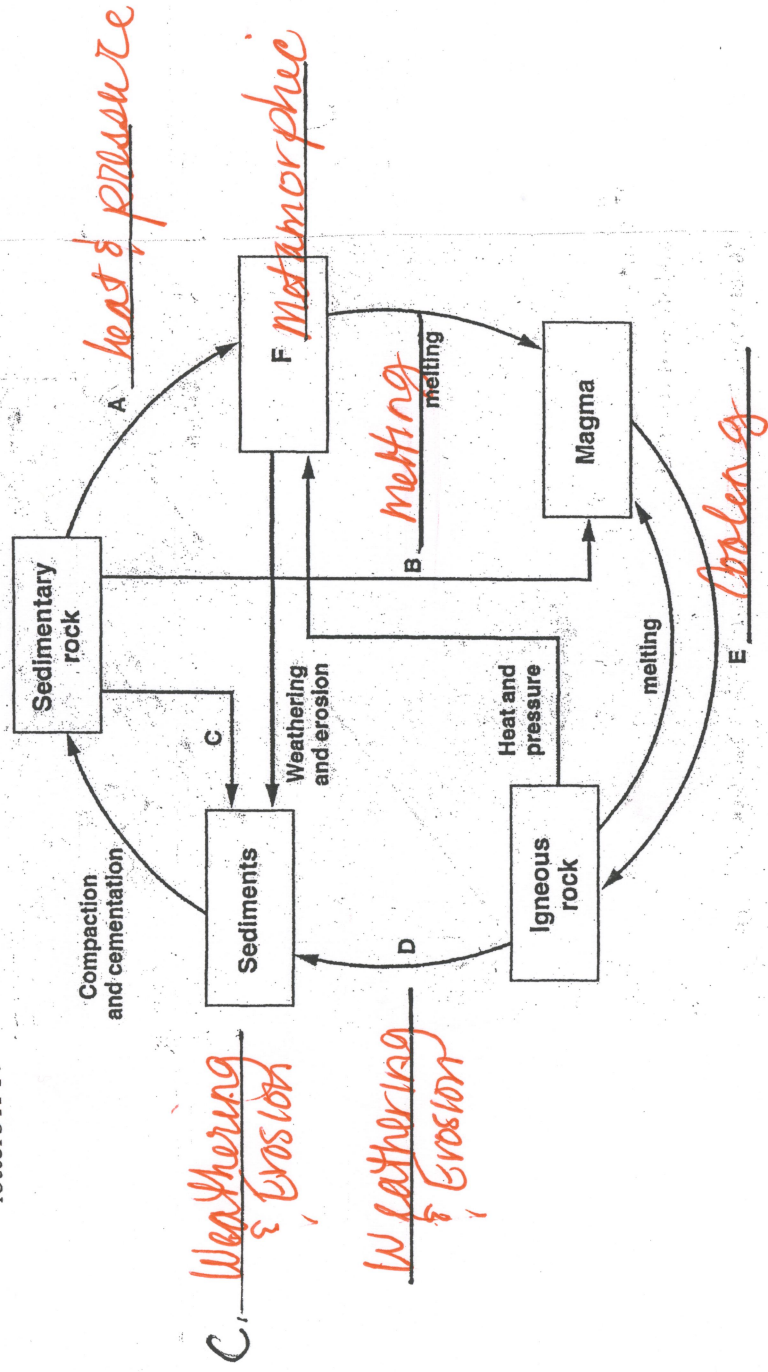
27. hotspots and plate boundaries are the 2 locations where volcanoes occur.

Short Answer: write down a COMPLETE answer for the following questions.

28. What is geology?

The study of the Earth

29. Complete the following rock cycle and write your answers on the lines provided next to the letters A-F.



30. What are the 2 different layers of the Earth's crust? What are 2 differences between the layers?

The 2 different layers are the oceanic crust and continental crust - the continental is thicker & less dense than the ~~cont~~ oceanic. The oceanic is more thin and is more dense.